

PP-113

Anticancer properties of essential oils formulated into nano emulsion

Tanuja Singh Tomar

Amity Institute of Biotechnology, Amity University Madhya Pradesh, Gwalior

The most common cause of death after cardiovascular diseases is cancer. Among women the most common cause of cancer death is breast cancer. Research's for developing new and more effective drugs are going. Essential oils are one of the potential drugs for cancer as it has many benefits including its anticancer properties. In this study two medically important essential oils were taken ADEO and ZMEO were taken. The EO's were formulated into nano emulsion using spontaneous emulsification approach. Stability test were performed to select optimum nano emulsions for each EO. Anti-cancer properties of formulated ADEO and ZMEO was significantly better than non-formulated form. ZMEO comes as a more effective antioxidant and it also have better anti-cancer properties when observed its effect on the four human breast cancer lines.

KEYWORDS: Cancer, essential oils, nano emulsion.